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## AML/S SCSI Software Version 2.00

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## 0. Prerequisite

The AML/S SCSI software version 2.00 requires AMU AMS version 2.40E or higher.

Hardware and Software requirements apply according to the AMU AMS 2.40E prerequisite requirements.

## 1. AML/S SCSI Software Version 2.00

### 1.1. General Information

The AMU AML/S SCSI Software version 2.00 provides fixes for the AMLS.SYS SCSI device driver to support AMU's request for robot version and increased the SCSI timeout value to 10 minutes instead of 5 minutes. The SCSIUtil program has not been modified.

### 1.2. Description of New Features and Changes

The AML/S SCSI software version 200 has the following changes and/or features:

- Modified SCSI driver command timeout from 5 to 10 minutes.
- Added AMU robot status command support to return Scalar 1000 firmware version .

## 2. AML/S SCSI Software Version 1.10

### 2.1. General Information

The AMU AML/S SCSI Software version 1.10 provides fixes for the AMLS.SYS SCSI device driver to support up to 48 drives with an AML/S. The SCSIUTIL utility program has not been modified.


If an AML/S is configured with more than 14 drives, AMU AMS version 2.40E or higher must be installed and hardware and software requirements apply according to AMU AMS 2.40E prerequisite requirements.

### 2.2. Description of New Features and Changes

The AML/S SCSI software version 1.10 has the following changes and/or features:

- Added SCSI driver support for up to 48 drives.
- Added support for AML/S AIT capacities.

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### 3. AML/S SCSI Software Version 1.02

#### 3.1. General Information

The AMU AML/S SCSI Software version 1.02 provides fixes for the SCSIUtil.exe program. The AMU SCSI device driver has not been modified.

#### 3.2. Description of New Features and Changes

The AML/S SCSI software version 1.02 has the following changes and/or features:

- Corrected option display for Initialize Element Status with Range
- Support for Inquiry Unit Serial Number Page
- Corrected support for Send Diagnostic test pages
- Added support for retrieval of Mode Sense Mixed Media Page

### 4. AML/S SCSI Software Version 1.01

#### 4.1. General Information

The AMU AML/S SCSI Software version 1.01 provides support for new AML/S microcode level 1.00 and higher. It also addressed requests for additional features.

#### 4.2. Description of New Features and Changes

The AML/S SCSI software version 1.01 has the following changes and/or features:

- AMLS.SYS Support for SCSIUtil Send Diagnostic command
- SCSIUtil.EXE Support of up to 48 drives
- SCSIUTIL.DLL Correction of Service telephone number in ABOUT screen
- TRCOPEN.EXE Display utility return codes to determine successful operation
- TRCCLOSE.EXE Display utility return codes to determine successful operation


### 5. AML/S SCSI Software Version 1.00

#### 5.1. General Information:

The AML/S SCSI software version 1.00 provides an interface for the AMU AMS to the SCSI attached AML/S. Two new AMU AMS dynamic link libraries, *KRN SCSI.DLL* and *KRNSet.DLL*, indicate the communication path to the AMU kernel. The kernel then directs all commands via the *KRN SCSI.DLL* to the SCSI device driver, *AML.SYS*, to issue commands to the AML/S medium changer.

The SCSI software provides several programs, however, during normal AMU AMS operation, only the *AML.SYS* SCSI device driver is active. Supplied trace utilities may be invoked if required. The SCSI Diagnostic Utility program is a diagnostic tool to test AMU to AML/S SCSI operation. It should not be activated while the AMU AMS kernel program is active. The diagnostic utility program has on-line contextual and general help for all command operations.

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## 5.2. Description of New Features and Changes

The AML/S SCSI software version 1.00 is a new release to support the AML/S. The following software programs and components are available on diskette:

- AMLS.SYS                SCSI device driver for OS/2
- SCSIUtil.EXE        SCSI Diagnostic Utility to test AMU SCSI communication
- SCSIUTIL.DLL        SCSI Diagnostic Utility resource file
- SCSIUTIL.HLP        SCSI Diagnostic Utility help file
- TRCOPEN.EXE        SCSI trace utility to collect SCSI driver trace
- TRCCLOSE.EXE       SCSI Trace utility to dump trace to SCSI.TRC

## 6. Installation of SCSI Software

The installation (copying of all files to the AMU hard disk's *C:\AMU\SCSI* directory) is performed either automatically with the AMU AMS installation program, or may be performed manually, by copying the *A:\\*.\** files from diskette to the *C:\AMU\SCSI* directory.

An automatic installation modifies the *CONFIG.SYS* to add the statement *DEVICE=C:\AMU\SCSI\AML.SYS* and adds the OS/2 Base Device Driver entries *BASEDEV=OS2SCSI.DMD*, and *BASEDEV=AIC7870.ADD*, if not already present. Manual installations require manual updates of the *CONFIG.SYS*.

**NOTE:** Once the AML.SYS SCSI device driver is copied, the AMU controller needs to be rebooted in order to load the device driver into RAM.

**NOTE:** AML/S microcode should be copied to the *C:\AMU\SCSI* directory to allow microcode download operations by the SCSIUtil.EXE. If AML/S log and trace is uploaded, it will be stored in \*.DMP files in the *C:\AMU\SCSI* directory.

## 7. Problem Fixes:

### 7.1. Addressed Problem Logs SCSI 2.00

- AMLS.SYS:    PTS 939: SCSI driver requires higher command timeout value.
- AMLS.SYS:    PTS 940: SCSI driver requires support for robot version command.


### 7.2. Addressed Problem Logs SCSI 1.10

- AMLS.SYS:    PTS 549: SCSI driver requires support for up to 48 drives.
- AMLS.SYS:    PTS 550: SCSI driver requires support for AML/S AIT capacities.

### 7.3. Addressed Problem Logs SCSI 1.02

- SCSIUtil:    PTS 474: Inquiry command correction
- SCSIUtil:    PTS 475: Log Sense Supported Media Page added
- SCSIUtil:    PTS 476: Mode Sense Mixed Media Page added
- SCSIUtil:    PTS 478: Send Diagnostic Test Pages corrected

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#### 7.4. Addressed Problem Logs SCSI 1.01

- SCSIUtil: ABOUT screen now displays correct ETAC telephone number
- SCSIUtil: Send Diagnostic command may now be issued to the AML/S
- SCSIUtil: Send Volume Tag command may now be issued to the AML/S
- SCSIUtil: Download Microcode command will not issue Test Unit Ready commands prior to a download operation any longer to allow download of microcode even if the AML/S does not report ready
- AMLS.SYS: Send Diagnostic Self test command will no longer cause an OS/2 Trap

#### 7.5. Addressed Problem Logs SCSI 1.00

- N/A

### 8. Known Bugs and Work Arounds (WAs)

- The AMU Kernel issues status requests to the AML/S to detect on boot up when the AML/S becomes ready. Once ready, the AML/S database will be uploaded. If the database is being uploaded while being created or updated, problems may occur.

WA: Leave AML/S powered off, or off-line, when configuring the AMU controller.

- When using SCSIUtil.EXE to download AML/S microcode, the AML/S does not respond properly on the SCSI BUS and the AMU SCSI adapter may report an adapter hardware failure.

WA: Once the download completes and the AML/S reboots, shutdown the AMU and reboot.

- When updating microcode to the AML/S, the AML/S SCSI ID will now default to ID 6. If the AMU previously recognized the AML/S with a different SCSI ID, the AMU SCSI adapter will detect an error and commands can no longer be issued. (Make sure the AML/S SCSI ID will not conflict with the AMU hard disk SCSI ID.)

WA: Reboot AMU controller to have new ID recognized.

- When updating microcode to the AML/S, the AML/S may reboot automatically and leave the SCSI bus in an unexpected state. The AMU SCSI controller will detect such error and commands to the AML/S will be rejected with an "adapter hardware error".

WA: Reboot AMU controller.

- The AMU controller hangs or does not recognize the AML/S if the AML/S is turned off.

WA: In order for the AMU to recognize the AML/S on boot up, the AML/S needs to be powered up, but not necessarily be on-line and ready. If the AML/S needs to be powered off, the AMU

AMS

must issue a HOME command to stop polling of the AML/S SCSI bus, as the AMU controller may otherwise hang, since the SCSI Test Unit Ready command (sent every 7.5 seconds to the AML/S) will cause OS/2 to hang. Communication to the AML/S is established automatically

on

AMU AMS boot, or may also be started with the STAT R1 (STAT R2) command.

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